

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
SQL> cl scr
```

```
SQL> COL Empno FORMAT 9999
```

```
SQL> SET PAGESIZE 20
```

```
SQL> SELECT * FROM Emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
7839	KING	PRESIDENT		17-NOV-81	5000	
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	
7782	CLARK	MANAGER	7839	09-JUN-81	2450	
7566	JONES	MANAGER	7839	02-APR-81	2975	
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0
7900	JAMES	CLERK	7698	03-DEC-81	950	
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500
7902	FORD	ANALYST	7566	03-DEC-81	3000	
7369	SMITH	CLERK	7902	17-DEC-80	800	
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	
7876	ADAMS	CLERK	7788	12-JAN-83	1100	
7934	MILLER	CLERK	7782	23-JAN-82	1300	

```
14 rows selected.
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, LOWER(Job) Job  
2 FROM Emp;
```

ENAME	JOB
KING	president

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```
BLAKE      manager
CLARK      manager
JONES      manager
MARTIN     salesman
ALLEN      salesman
TURNER     salesman
JAMES      clerk
WARD       salesman
FORD       analyst
SMITH      clerk
SCOTT      analyst
ADAMS      clerk
MILLER     clerk
```

14 rows selected.

```
SQL> SELECT Ename, SUM(Sal) SalSum
      2  FROM Emp;
SELECT Ename, SUM(Sal) SalSum
      *
```

ERROR at line 1:
ORA-00937: not a single-group group function

```
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, FROM Emp;
SELECT Ename, Sal, FROM Emp
      *
```

ERROR at line 1:
ORA-00936: missing expression

```
SQL> ED
Wrote file afiedt.buf
```

```
1* SELECT Ename, Sal FROM Emp
SQL> /
```

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500
JAMES	950

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```
WARD          1250
FORD          3000
SMITH         800
SCOTT         3000
ADAMS         1100
MILLER        1300
```

14 rows selected.

```
SQL> SELECT AVG(Sal) SalAvg FROM Emp;
```

```
      SALAVG
-----
2073.21429
```

```
SQL> SELECT AVG(Sal) SalAvg, AVG(DISTINCT Sal) SalAvg FROM Emp;
```

```
      SALAVG      SALAVG
-----
2073.21429 2064.58333
```

```
SQL> SELECT AVG(Sal) SalAvg, AVG(Comm) CommAvg
2 FROM Emp;
```

```
      SALAVG      COMMAVG
-----
2073.21429          550
```

```
SQL> SELECT Ename, Sal, Comm FROM Emp
2 /
```

```
ENAME          SAL      COMM
-----
KING           5000
BLAKE          2850
CLARK          2450
JONES          2975
MARTIN         1250          1400
ALLEN          1600          300
TURNER         1500           0
JAMES          950
WARD           1250          500
FORD           3000
SMITH          800
SCOTT          3000
ADAMS          1100
MILLER         1300
```

14 rows selected.

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```
SQL> SELECT AVG(Sal) SalAvg, AVG(Comm) CommAvg
2 FROM Emp
3
```

```
SQL> SELECT AVG(Sal) SalAvg, AVG(Comm) CommAvg, AVG(NVL(Comm, 0)) CommAvg
2 FROM Emp;
```

SALAVG	COMMAVG	COMMAVG
2073.21429	550	157.142857

```
SQL> cl scr
```

```
SQL> SELECT SUM(Sal) SalSum FROM Emp;
```

SALSUM
29025

```
SQL> SELECT SUM(Sal) SalSum, SUM(Comm) CommSum FROM Emp;
```

SALSUM	COMMSUM
29025	2200

```
SQL> SELECT SUM(Sal) SalSum, AVG(Sal) SalAvg, SUM(Comm) CommSum,
AVG(Comm) CommAvg FROM Emp;
```

SALSUM	SALAVG	COMMSUM	COMMAVG
29025	2073.21429	2200	550

```
SQL> cl scr
```

```
SQL> SELECT MAX(Sal), MIN(Sal) FROM Emp;
```

MAX(SAL)	MIN(SAL)
5000	800

```
SQL> cl scr
```

```
SQL> SELECT MAX(Sal) FROM Emp;
```

MAX(SAL)
5000

```
SQL> SELECT Ename, MAX(Sal) FROM Emp;
```

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```
SELECT Ename, MAX(Sal) FROM Emp
```

```
*
```

```
ERROR at line 1:
```

```
ORA-00937: not a single-group group function
```

```
SQL> SELECT MAX(Comm), MIN(Comm) FROM Emp;
```

MAX (COMM)	MIN (COMM)
1400	0

```
SQL> cl scr
```

```
SQL> SELECT MAX(Ename) MaxEname, MIN(Ename) MinEname  
2 FROM Emp;
```

MAXENAME	MINENAME
WARD	ADAMS

```
SQL> SELECT  
2 MAX(Sal), MIN(Sal), MAX(Sal) - MIN(Sal) Diff  
3 FROM Emp;
```

MAX (SAL)	MIN (SAL)	DIFF
5000	800	4200

```
SQL> cl scr
```

```
SQL> SELECT  
2 MIN(HireDate) SeniorDate,  
3 MAX(HireDate) JuniorDate  
4 FROM Emp;
```

SENIORDAT	JUNIORDAT
17-DEC-80	12-JAN-83

```
SQL> ED  
Wrote file afiedt.buf
```

```
1 SELECT  
2 MIN(HireDate) SeniorDate,  
3 MAX(HireDate) JuniorDate,  
4 TRUNC(MAX(HireDate) - MIN(HireDate)) Days  
5* FROM Emp  
SQL> /
```

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SENIORDAT	JUNIORDAT	DAYS
17-DEC-80	12-JAN-83	756

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  MIN(HireDate) SeniorDate,
3  MAX(HireDate) JuniorDate,
4  TRUNC (MAX(HireDate) - MIN(HireDate)) Days,
5  TRUNC (MONTHS_BETWEEN (MAX (HireDate), MIN (HireDate))) NMonths
6* FROM Emp
SQL> /
```

SENIORDAT	JUNIORDAT	DAYS	NMONTHS
17-DEC-80	12-JAN-83	756	24

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  MIN(HireDate) SeniorDate,
3  MAX(HireDate) JuniorDate,
4  TRUNC (MAX(HireDate) - MIN(HireDate)) Days,
5  TRUNC (MONTHS_BETWEEN (MAX (HireDate), MIN (HireDate))) NMonths,
6  TRUNC (MONTHS_BETWEEN (MAX (HireDate), MIN (HireDate)) / 12) NYears
7* FROM Emp
SQL> /
```

SENIORDAT	JUNIORDAT	DAYS	NMONTHS	NYEARS
17-DEC-80	12-JAN-83	756	24	2

SQL> cl scr

SQL> SELECT STDDEV (Sal), VARIANCE (Sal) FROM Emp;

STDDEV (SAL)	VARIANCE (SAL)
1182.50322	1398313.87

SQL> cl scr

SQL> SELECT COUNT (*) FROM Emp;

COUNT (*)

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14

SQL> SELECT * FROM Emp;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
7839	KING	PRESIDENT		17-NOV-81	5000	
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	
7782	CLARK	MANAGER	7839	09-JUN-81	2450	
7566	JONES	MANAGER	7839	02-APR-81	2975	
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
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7900	JAMES	CLERK	7698	03-DEC-81	950	
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500
7902	FORD	ANALYST	7566	03-DEC-81	3000	
7369	SMITH	CLERK	7902	17-DEC-80	800	
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	
7876	ADAMS	CLERK	7788	12-JAN-83	1100	
7934	MILLER	CLERK	7782	23-JAN-82	1300	

14 rows selected.

SQL> cl scr

SQL> SELECT COUNT(Ename) FROM Emp;

COUNT (ENAME)

14

SQL> SELECT COUNT(Sal), COUNT(Comm) FROM Emp;

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```
COUNT (SAL)  COUNT (COMM)
```

```
-----  
              14              4
```

```
SQL> CREATE TABLE SampCNT  
2  (  
3    SampID NUMBER(10),  
4    SampName VARCHAR2(10),  
5    SampDate DATE  
6  );
```

Table created.

```
SQL> INSERT INTO SampCNT  
2  VALUES (NULL, NULL, NULL);
```

1 row created.

```
SQL> INSERT INTO SampCNT  
2  VALUES (NULL, NULL, NULL);
```

1 row created.

```
SQL> INSERT INTO SampCNT  
2  VALUES (NULL, NULL, NULL);
```

1 row created.

```
SQL> INSERT INTO SampCNT  
2  VALUES (NULL, NULL, NULL);
```

1 row created.

```
SQL> SELECT * FROM SampCNT;
```

```
      SAMPID  SAMPNAME  SAMPDATE  
-----  
-----
```

```
SQL> SELECT COUNT (SampID), COUNT (Sampname), COUNT (SampDate)  
2  FROM SampCNT;
```

```
COUNT (SAMPID)  COUNT (SAMPNAME)  COUNT (SAMPDATE)  
-----  
              0              0              0
```

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SQL> SELECT COUNT(*) FROM SampCNT;

COUNT(*)
4

SQL> l scr

SP2-0224: invalid starting line number

SQL> cl scr

SQL> SELECT 125 FROM Emp;

125
125
125
125
125
125
125
125
125
125
125
125
125
125
125

14 rows selected.

SQL> SELECT COUNT(*), COUNT(1) FROM Emp;

COUNT(*)	COUNT(1)
14	14

SQL> SELECT COUNT(*), COUNT(2) FROM Emp;

COUNT(*)	COUNT(2)
14	14

SQL> cl scr

SQL> SELECT SUM(Sal) FROM Emp;

SUM(SAL)

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```
-----
29025

SQL> SELECT SUM(Sal) FROM Emp
2 WHERE Deptno = 10;

SUM(SAL)
-----
8750

SQL> cl scr

SQL> SELECT Deptno, Ename FROM Emp;
```

DEPTNO	ENAME
10	KING
30	BLAKE
10	CLARK
20	JONES
30	MARTIN
30	ALLEN
30	TURNER
30	JAMES
30	WARD
20	FORD
20	SMITH
20	SCOTT
20	ADAMS
10	MILLER

14 rows selected.

SQL> cl scr

```
SQL> SELECT Deptno, SUM(Sal)
2 FROM Emp;
SELECT Deptno, SUM(Sal)
*
ERROR at line 1:
ORA-00937: not a single-group group function
```

```
SQL> ED
Write file afiedt.buf
```

```
1 SELECT Deptno, SUM(Sal)
2 FROM Emp
3* GROUP BY Deptno
```

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SQL> /

DEPTNO	SUM(SAL)
10	8750
20	10875
30	9400

SQL> ED

Wrote file afiedt.buf

```
1  SELECT SUM(Sal)
2  FROM Emp
3* GROUP BY Deptno
SQL> /
```

SUM(SAL)
8750
10875
9400

SQL> cl scr

SQL> SELECT Deptno FROM Emp;

DEPTNO
10
30
10
20
30
30
30
30
30
30
20
20
20
20
10

14 rows selected.

```
SQL> SELECT Deptno FROM Emp
2  GROUP BY Deptno;
```

DEPTNO

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```
-----  
      10  
      20  
      30
```

```
SQL> SELECT DISTINCT Deptno FROM Emp;
```

```
      DEPTNO  
-----  
      10  
      20  
      30
```

```
SQL> cl scr
```

```
SQL> SELECT Job  
      2 FROM Emp;
```

```
      JOB  
-----  
PRESIDENT  
MANAGER  
MANAGER  
MANAGER  
SALESMAN  
SALESMAN  
SALESMAN  
CLERK  
SALESMAN  
ANALYST  
CLERK  
ANALYST  
CLERK  
CLERK
```

```
14 rows selected.
```

```
SQL> SELECT Job  
      2 FROM Emp  
      3 GROUP BY Job;
```

```
      JOB  
-----  
ANALYST  
CLERK  
MANAGER  
PRESIDENT  
SALESMAN
```

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```
SQL> SELECT DISTINCT Job
      2  FROM Emp;
```

JOB

ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN

```
SQL> cl scr
```

```
SQL> SELECT MGR FROM Emp;
```

MGR

7839
7839
7839
7698
7698
7698
7698
7698
7566
7902
7566
7788
7782

14 rows selected.

```
SQL> SELECT MGR
      2  FROM Emp
      3  GROUP BY MGR;
```

MGR

7566
7698
7782
7788
7839
7902

7 rows selected.

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```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT MGR
2  FROM Emp
3  WHERE MGR IS NOT NULL
4* GROUP BY MGR
SQL> /
```

```
      MGR
-----
      7566
      7698
      7782
      7788
      7839
      7902
```

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Deptno
2  FROM Emp
3  GROUP BY Job;
SELECT Deptno
      *
```

```
ERROR at line 1:
ORA-00979: not a GROUP BY expression
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno
2  FROM Emp
3* GROUP BY Deptno
SQL> /
```

```
      DEPTNO
-----
          10
          20
          30
```

```
SQL> l scr
SP2-0224: invalid starting line number
SQL> cl scr
```

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```
SQL> SELECT Deptno, Job
2 FROM Emp;
```

DEPTNO	JOB
10	PRESIDENT
30	MANAGER
10	MANAGER
20	MANAGER
30	SALESMAN
30	SALESMAN
30	SALESMAN
30	CLERK
30	SALESMAN
20	ANALYST
20	CLERK
20	ANALYST
20	CLERK
10	CLERK

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, Job
2 FROM Emp
3* GROUP BY Deptno, Job
SQL> /
```

DEPTNO	JOB
10	CLERK
10	MANAGER
10	PRESIDENT
20	CLERK
20	ANALYST
20	MANAGER
30	CLERK
30	MANAGER
30	SALESMAN

9 rows selected.

```
SQL> SPOOL OFF
```

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